

Historic, Archive Document

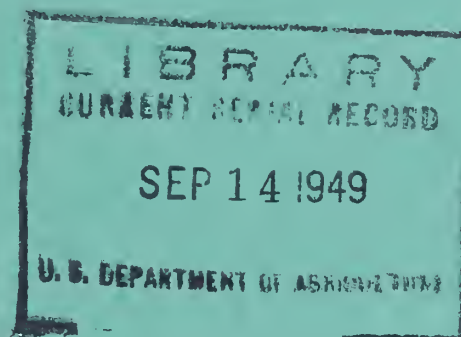
Do not assume content reflects current scientific knowledge, policies, or practices.

1.96
R31 F5 m0
Lef 2

FEDERAL-STATE COOPERATIVE SNOW SURVEYS and IRRIGATION WATER FORECASTS

for
MONTANA

March 1, 1949



by
Montana Agricultural Experiment Station
and
Division of Irrigation, Soil Conservation Service
United States Department of Agriculture

in cooperation with

U.S. Forest Service •••• U.S. National Park Service •••• U.S. Bureau of Reclamation •••• U.S. Geological Survey
and State Engineer of Montana

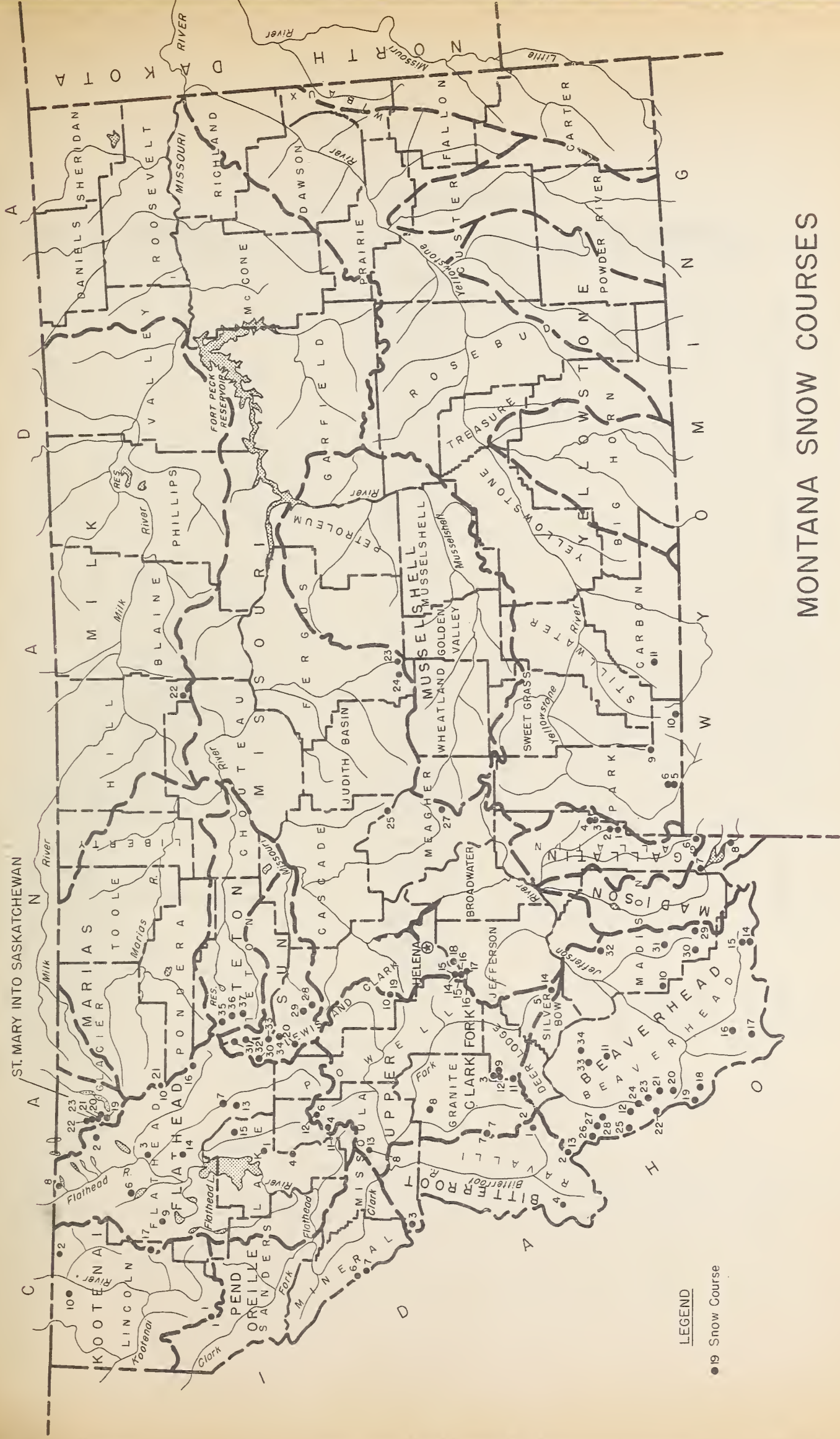
FEDERAL-STATE COOPERATIVE
SNOW SURVEY AND IRRIGATION WATER FORECASTS
FOR
MONTANA
Upper Missouri and Upper Columbia Rivers

Report Prepared
by
O. W. Monson: Head, Rural Engineering
Montana State College
and
Ashton R. Codd: Hydraulic Engineer
Soil Conservation Service

Division of Irrigation
Soil Conservation Service

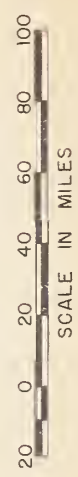
and

Montana Agricultural Experimental Station
Bozeman, Montana



MONTANA SNOW COURSES

JANUARY, 1949



LEGEND

● 19 Snow Course

INDEX TO MONTANA SNOW COURSES

PRELIMINARY IRRIGATION WATER SUPPLY OUTLOOK
FOR MONTANA

March 1, 1949

* * * * *

* The outlook for Irrigation water supply for the 1949 season *
* is "EXCELLENT!" Snow Survey measurements made on or close to *
* March 1 indicate that there is approximately 130% of average *
* water content in the snow packs for this season. This figure *
* is relatively the same as last season. Reservoir storage is *
* generally "GOOD." *
*

* The threat of FLOOD HAZARD from the plains are greatly reduced *
* by virtue of the reduced rate of melting during the last seven *
* days of the month: A real FLOOD HAZARD exists over the Upper *
* Columbia River Basin in Montana where an extremely heavy snow *
* pack exists. Extremely warm temperatures with rainfall will, *
* without a doubt, cause considerable damage. *
*

* * * * *

Snow pack conditions in general indicate that there is a greater percentage of snow at low elevation courses than at high elevation courses. The low elevation courses (below 6500ft.) show approximately 140% to 180% of average water content while the high elevation courses (above 6500ft.) show from 125% to 130% of average water content which is indicative of an early spring runoff.

On the Milk River, the course at Rocky Boy indicated 86% of average which may indicate a slight shortage of snow in the lower reaches of the Basin. However, measurements made at Marias Pass at a high elevation indicate 153% of average.

The Jefferson, Madison and Gallatin Basins will produce a good supply of water and again the percentage is usually higher at the lower elevation than higher in the mountains.

The Main Stem of the Yellowstone River will supply approximately the same volume of water as last season; however, the timing of the peak flows will vary considerably by virtue of the high percentage of water content at low elevations. Snow measurements indicate about 10% greater volume this season than last year.

COLUMBIA RIVER

Snow Surveys on the Columbia River Basin indicate a greater percentage of snow at low elevations than at the higher stations which presents a greater hazard to flood conditions from warm temperatures accompanied by rain.

Precipitation reports from stations in the headwaters of the Clarks Fork River indicate a departure of +5.00 in. from normal. This added water will greatly increase the FLOOD HAZARD.

U.S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
STATE OF MONTANA, MONTHLY PRECIPITATION FOR
OCTOBER, 1948 - FEBRUARY 28, 1949

STATIONS	OCTOBER 1948		NOVEMBER 1948		DECEMBER 1948		JANUARY 1949		FEBRUARY 1949	
	Precip.	Dep.	Precip.	Dep.	Precip.	Dep.	Precip.	Dep.	Precip.	Dep.
<u>WEST OF DIVIDE</u>										
Butte	.36	-0.43	.41	0.00	0.94	.50	0.50	0.10	0.91	.49
Deer Lodge	.06	-0.62	.77	0.22	1.14	.63	0.53	-0.06	0.86	.43
Hamilton	.44	-0.47	1.53	0.72	1.32	.61	0.22	-0.55	1.57	.85
Kalispell	.40	-0.66	1.50	0.15	1.02	-.43	1.07	-0.50	1.28	.17
Missoula	0.23	-0.72	0.92	0.02	1.04	.09	0.34	-0.51	0.97	.17
<u>CENTRAL DIVISION</u>										
Babb	0.10	-1.08	0.44	-0.55	0.31	-.63	1.24	---	0.71	-.11
Dillon Normal School	0.15	-0.69	0.35	-0.45	0.95	.21	0.62	-0.21	0.57	-.25
Fort Benton	0.04	-0.68	0.70	0.11	0.63	.12	0.99	0.33	0.78	.29
Great Falls	.08	-0.78	0.39	-0.29	0.53	-.12	1.40	---	0.79	.24
Havre	.09	-0.58	-0.26	-0.35	0.52	-.39	0.44	-0.29	0.49	-.03
Helena WBO	.05	-0.56	0.61	0.16	0.80	.33	0.66	0.10	0.59	.22
Livingston	.21	-0.96	0.67	-0.13	0.88	.28	1.14	---	0.42	-.12
Lewistown Arpt.	.01	-0.35	1.02	0.81	---	---	---	---	---	---
Mystic Lake	.24	-1.60	1.13	-0.45	1.77	.73	1.40	---	1.69	.61
<u>EASTERN DIVISION</u>										
Billings #2	.01	-1.30	0.18	0.18	0.73	.23	1.46	0.83	0.48	.06
Circle	.06	-0.79	0.63	.06	0.45	-.30	0.57	---	0.31	-.30
Frazer	.03	-0.85	0.63	.10	0.95	.56	0.55	0.14	0.46	-.12
Malta	.00	-0.73	0.25	-.16	0.58	.12	0.16	-0.31	0.28	-.09
Mildred	T	-0.73	1.67	1.30	0.41	.09	0.98	0.64	0.41	.14
Medicine Lake	0.16	-0.59	1.15	0.82	0.48	.20	0.08	-0.23	0.14	-.18
Miles City	T	-0.90	0.49	-.08	0.31	-.32	0.85	0.19	---	---
Fort Peck	T	-0.75	0.14	-.33	0.16	-.12	0.16	---	0.23	-.04

NOTE: Departure from normal figures without a minus sign (-) are plus.

STORAGE IN RESERVOIRS OF MONTANA

MISSOURI RIVER BASIN

AS OF FEBRUARY 28, 1949

RESERVOIR	Location or on Diversion from	Usable Capacity	Contents This Month End	Contents February 1948
Lake Sewall	Missouri	37,800	24,330	36,220
Hauser Lake	Missouri	52,090	32,730	45,730
Ft. Peck Res.	Missouri	19,000,000	12,580,000	13,200,000
Ruby Res.	Ruby	38,500		
Harrison Lake	Willow Cr.	17,760		
Hebgen Res.	Madison River	345,000	255,900	283,700
Madison Res.	Madison River	41,000	37,970	37,140
Smith River Res.	Smith River	10,700		
Gibbons Res.	N. Fk. Sun River	105,000	70,350	60,140
Willow Creek	N. Fk. Sun-Willow Cr.	32,300	18,470	16,700
Pishkun Res.	N. Fk. Sun River	32,000	16,140	20,840
Lower Two Medicine L.	Two Medicine River	14,000		
Four Horns Res.	Badger Creek	20,000	9,800	7,330
Birch Creek Res.	Birch Creek	30,000	28,380	19,030
Lake Francis Res.	Birch Creek	112,000	99,120	102,340
Ackley Lake	Judith River	5,820		4,690
Durand Res.	N. Fk. Musselshell	7,010		
Dead Man Basin	Musselshell River	52,500		
Martinsdale Res.	So. Fk. Musselshell	23,100		
Fresno Reservoir	Milk River	127,200		71,800
Nelson Res.	Milk River	66,800		
Mystic Lake	W. Rosebud Creek	20,800	9,360	10,980
Glacier Lake	Rock Creek	4,200		
Cooney Res.	Red Lodge Creek	27,500		7,410
Tongue Res.	Tongue River	73,900		9,580
Sherburne Lake Res.	Swiftcurrent Creek	66,100	11,580	34,240
Lake Helena	Missouri River	10,450	2,330	7,200

COLUMBIA RIVER BASIN

Georgetown Lake	Flint Creek	31,000	28,210	28,660
E. Fk. Rock Cr. Res.	E. Fk. Rock Creek	16,040		
Nevada Creek Res.	Nevada Creek	12,600	9,140	
W. Fk. Bitterroot Res.	E. Fk. Bitterroot	31,700	10,000	10,000
Como Lake	Rock Creek	34,800		
Flathead Lake(Sommers)	Flathead River	1,791,000	651,600	681,200
Little Bitterroot	Little Bitterroot	37,100*	24,000	13,200
Dry Fork Res.	Dry Fork Creek	6,700*	2,240	2,240
Mission Valley Reservoirs	Mission Valley (Flathead River)	105,000**	28,891	39,720

*Comprise two Reservoirs on Dry Creek.

*Comprise two Reservoirs on Little Bitterroot River.

**Comprise nine small Reservoirs on Mission Valley Project Indian Reclamation Service.

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

1912-1913

MONTANA SNOW SURVEYS March 1, 1949

SNOW MEASUREMENTS

SNOW MEASUREMENTS													
MISSOURI BASIN DRAINAGE BASIN AND SNOW COURSE**	State	No.	Elev.	Date of Survey 1949	Snow Depth (In.) 1949	Water Content (Inches)						Years of Record	
						March 1949	Past Records		Average Data*				
							1948	1947	Avg.	%Avg.	March 1		April 1
Jefferson River	Mont.	33	7000	2/15	36.2	8.4	6.6	---	---	---	---	2	
Anderson Meadow	"	27	6900	2/19	65.6	17.9	11.6	---	---	---	---	2	
Below Big Hole	"	26	7440	2/19	71.4	21.0	7.9	---	---	---	---	2	
Big Hole Pass	"	23	7600	2/21	47.2	14.0	7.0	---	---	---	---	2	
Floody Dick	"	30	5900	2/25	31.4	8.2	5.9	---	---	---	---	2	
Cottonwood	"	29	8400	2/25	35.4	9.2	6.0	---	---	---	---	2	
Cottonwood, Upper	"	28	6700	2/17	42.2	9.8	5.2	---	---	---	---	2	
East Boundary	"	11	8450	2/27	42.2	12.2	8.4	11.0	7.1	172	8.3	15	
Elk Horn	"	10	6950	3/1	23.8	5.1	3.8	3.4	3.4	150	5.4	4	
Flashlight	"	13	7100	2/28	81.2	26.2	13.8	25.5	17.4	170	20.8	15	
Gibbons Pass	"	22	8100	2/21	51.5	15.6	3.7	---	---	---	---	2	
Goldstone	"	24	7340	2/21	46.2	13.6	3.3	---	---	---	---	2	
Jahnke Creek	"	15	6930				4.2	---	---	---	---	2	
Lakeview Canyon	"	14	7400				4.8	---	---	---	---	2	
Lakeview Ridge	"	19	7480	2/8	36.4	7.9	9.3	---	---	---	---	2	
Lemhi Pass	"	17	6950	2/7	13.3	2.6	0.8	---	---	---	---	2	
Limekiln	"	25	7300	2/22	46.5	14.0	6.3	---	---	---	---	2	
Miner Forks	"	12	6720	2/22	38.9	9.4	6.6	10.4	7.7	129	9.0	4	
Miner Lake	"	14	7200	3/2	29.3	6.8	5.7	5.7	4.0	170	5.4	11	
Pipestone Pass	"	21	6800	2/9	35.2	8.8	4.1	---	---	---	---	2	
Selway Junction	"	20	6650	2/10	23.2	4.8	2.4	---	---	---	---	2	
Terrell Creek	"	32	6900	2/24	39.8	11.0	8.3	---	---	---	---	2	
Tobacco Root	"	18	7090	2/8	32.0	7.0	7.8	---	---	---	---	2	
Trail Creek	"	31	6125	2/25	9.0	2.1	1.1	---	---	---	---	2	
Vigilante	"	16	8850	2/7	29.4	6.0	4.9	---	---	---	---	2	
White Pine Ridge	"	34	6300	2/15	26.6	5.8	4.5	---	---	---	---	2	
Wise River	"			No Report			4.1	9.6	7.9		8.5	13	
Camp Creek*	Idaho		6800										

* Course on adjacent basin

** Location of course shown on Index Map

MISSOURI BASIN DRAINAGE BASIN AND SNOW COURSE **		SNOW MEASUREMENTS										Years of Record		
State	No. Elev.	Date of Survey 1949	Snow Depth (In.) 1949	Water Content (Inches)				Average Data*						
				Past Records		Average Data*		March 1		April 1				
1948	1947	Avg.	%Avg.	Avg.	%Avg.									
<u>Madison River</u>														
Hebgen Lake	Mont.	7	6550	3/1	46.6	14.0	10.0	11.5	10.6	132	12.4	113	15	
Norris Basin	"	7	7500	Not Surveyed			---	8.9	8.1	---	9.5	---	10	
21 Mile	"	6	7150	2/28	60.9	20.5	10.5	10.1	12.9	159	15.5	132	15	
West Yellowstone	"	8	6700	3/1	47.4	14.4	7.0	10.3	9.5	152	10.6	136	15	
Valley View	Idaho		6500	No Report			8.8	13.4	11.2	---	14.0	---	3	
Big Springs	"		6500	No Report			13.2	17.5	11.0	---	19.5	---	13	
<u>Gallatin River</u>														
Devil's Slide	Mont.	1	8100	3/1	58.9	18.1	23.2	16.0	14.9	122	19.7	92	14	
Hood Meadow Ext.	"	2	6600	3/1	34.1	8.7	11.3	6.2	6.2	140	8.2	106	15	
Mystic Lake	"	3	6600	2/27	35.1	9.1	11.7	7.6	6.3	154	6.8	143	13	
New World	"	4	6600	2/27	37.8	11.2	14.7	10.7	8.8	123	7.4	119	8	
21 Mile	"	6	7150	2/28	60.9	20.5	10.5	16.1	12.9	159	15.5	132	15	
<u>Main Stem Above Great Falls</u>														
Chessman	"	18	6200	2/28	26.9	7.1	8.4	6.0	4.2	169	4.4	161	13	
Crystal Lake	"	24	6100	2/27	51.1	15.1	11.4	9.1	10.3	147	12.0	126	8	
Grasshopper	"	27	7000	2/26	31.0	7.3	5.1	3.6	3.9	187	4.9	149	11	
Kings Mill	"	25	7950	2/28	52.6	15.1	12.0	13.5	9.8	154	12.3	123	15	
Picnic grounds	"		6500	2/28	29.8	6.3	3.0	---	---	---	3.6	175	4	
Pipestone Pass	"	14	7200	3/2	29.3	6.8	5.7	5.7	4.0	170	5.4	126	11	
Rimini Lower	"	15	6250	3/1	33.0	8.1	9.0	9.1	5.2	156	5.9	137	14	
Rimini Middle	"	16	6800	3/2	42.6	11.2	12.4	13.0	7.8	144	9.8	114	15	
Rimini Upper	"	17	8000	3/2	45.6	13.2	15.7	16.3	10.1	131	12.7	104	15	
Stemple Pass	"	16	6900	3/1	44.0	12.1	8.5	12.0	7.7	157	8.7	139	15	

*Course on adjacent basin

**Location of course shown on Index Map

MONTANA SNOW SURVEYS March 1, 1949

MISSOURI BASIN		SNOW MEASUREMENTS											
DRAINAGE BASIN AND SNOW COURSE **	State	No.	Elev.	Date of Survey 1949	Snow Depth (In.) 1949	Water Content (Inches)						Years of Record	
						March 1949	Past Records		Average Data				
							1948	1947	March	April			
										Avg.	%Avg.		Avg.
<u>Sun River</u>													
Bench Mark	Mont.	29	5500	2/27	38.0	9.0	7.0	---	---	---	2		
Cabin Creek	"	34	5400	2/26	26.3	6.2	---	---	---	---	1		
5 Bull	"	28	5600	2/27	28.4	6.9	7.7	---	---	---	2		
Gates Park	"	33	5300	2/27	27.4	9.9	---	---	---	---	1		
Goat Mountain	"	20	7000	2/28	39.8	11.2	9.8	16.1	7.6	149	8.6	131	9
My Lake	"	30	7300	Not Surveyed			---	---	---	---	---	---	1
Wrong Creek	"	32	5700	2/28	50.0	14.5	---	---	---	---	---	---	1
Wrong Cr. Ridge	"	31	6800	3/2	62.6	20.9	---	---	---	---	---	---	1
<u>Teton River</u>													
Fright Creek	"	35	6000	3/1	49.9	15.3	12.3	---	---	---	---	---	2
Waldron Creek	"	37	5600	2/28	28.3	6.8	4.5	---	---	---	---	---	2
West Fork	"	36	6000	2/28	50.4	16.6	9.9	---	---	---	---	---	2
<u>Marias River</u>													
Marias Pass	"	21	5250	2/28	63.2	20.5	13.1	13.3	13.4	153	15.5	132	12
Rocky Boy	"	22	5200	3/1	24.9	4.4	6.5	4.1	5.1	86	5.6	79	7
Snow Lab. 13	"	16	5240	3/1	39.3	11.3	9.0	---	---	---	---	---	2
<u>Milk River</u>													
Rocky Boy	"	22	5200	3/1	24.9	4.4	6.5	4.7	5.1	86	5.6	79	7

** Location of course shown on Index Map

MONTANA SNOW SURVEYS March 1, 1949

MISSOURI BASIN DRAINAGE BASIN AND SNOW COURSE **				SNOW MEASUREMENTS										Years of Record
State	No.	Elev.	Date of Survey 1949	Snow Depth (In.) 1949	Water Content (Inches)									
					March 1949	Past Records		Average Data						
						1948	1947	Avg.	%Avg.	March 1	April 1			
											Avg.	%Avg.		
<u>Yellowstone River</u>														
	Canyon	Wy.	2	7750	3/2	53.3	13.4	9.5	11.3	9.0	149	10.5	128	12
	Crevice #1	Mont.	5	8400	2/28	43.2	11.4	11.2	8.8	7.9	144	9.9	119	10
	Crevice #2	"	6	8150	2/28	43.7	11.4	11.8	9.5	8.5	139	9.6	123	9
	Lake	Wy.	1	7850	3/2	43.2	12.5	9.2	9.5	8.5	147	10.3	121	13
	Lupine	"	3	7300	2/28	43.4	13.3	7.5	8.0	8.4	158	9.9	135	6
	Sylvan Pass	"	32	7100	3/1	49.7	15.7	12.6	10.8	12.2	124	13.1	120	6
<u>Shields River</u>														
	Porcupine	Mont.	7	6500	2/28	30.6	8.0	5.2	4.1	3.8	210	4.0	200	11
<u>Boulder River</u>														
	Independence	Mont.	9	8000	3/6	60.7	20.3	18.7	---	13.4	152	17.1	119	6
<u>Clark Fork of Yellowstone</u>														
	Camp Senia	Mont.	11	7890	3/2	24.3	6.6	9.3	6.2	4.8	138	7.3	91	11
	Cook City	"	10	7400	2/28	35.8	9.3	3.2	7.2	6.2	150	7.1	131	12

** Location of course shown on Index Map

SNOW MEASUREMENTS

SNOW MEASUREMENTS										Years of Record							
COLUBIA BASIN DRAINAGE BASIN AND SNOW COURSE **	State	No.	Elev.	Date of Survey 1949	Snow Depth (In.) 1949	Water Content (inches)											
						March 1949	Past Records 1948	1947	Average Data								
									March	April							
										Avg.	%Avg.	%Avg.					
<u>Kootenai River</u>																	
Fernie	Canada		3500	2/28	37.3	9.3	8.1	10.6	6.8	135	6.7	137	9				
Gray Creek	"		5100	2/26	65.7	17.8	---	---	---	---	---	---	1				
Kimberley	"		3750	2/27	37.2	7.2	7.3	9.3	5.0	144	4.1	175	8				
Marble Canyon	"		5000	2/28	49.0	12.0	11.8	13.1	---	---	---	---	2				
Nelson	"		3050	2/28	61.8	20.2	13.3	14.6	11.2	182	11.7	173	8				
Red Mountain	Mont.	10	6000	3/1	59.4	18.7	15.5	20.1	14.7	127	16.5	114	10				
Sinclair Pass	Canada		4500	2/28	20.8	3.7	5.9	---	---	---	4.6	---	12				
Sullivan Mine	"		5100	2/28	52.3	12.7	12.1	7.2	9.9	129	13.5	94	2				
Upper Elk River	"		--	2/28	32.0	8.0	---	---	---	---	---	---	1				
<u>Upper Clark Fork</u>																	
Intergaard	Mont.	3	6450	2/28	39.5	10.6	8.3	6.6	5.5	192	7.3	145	10				
North Fork Jocko	"	4	6330	3/2	100.0	37.4	39.5	44.1	38.7	118	37.5	136	7				
Pipestone Pass	"	5	7200	3/2	29.3	6.8	5.1	5.1	4.0	170	5.4	126	11				
Rainy Lake	"	6	4300	2/27	44.5	14.3	9.0	10.1	---	---	---	---	2				
Southern Cross	"	9	6500	2/28	25.2	6.5	5.1	3.8	4.1	159	3.9	167	10				
Stemple Pass	"	10	6900	3/1	44.0	12.1	3.5	12.0	7.7	157	8.7	139	15				
Stuart Hill	"	12	6500	2/28	33.8	8.9	3.5	5.5	4.4	201	5.5	161	10				
Stuart Mountain #1	"	13	7400	No Report			29.5	32.1	24.3		29.0		13				
Tenmile Cr. Lower	"	14	6250	3/1	33.0	8.1	9.0	9.3	5.4	150	5.9	137	12				
Tenmile Cr. Middle	"	15	6800	3/2	42.6	11.2	12.4	13.0	7.8	143	9.8	114	15				
Tenmile Cr. Upper	"	16	8000	3/2	45.6	13.2	15.7	16.3	10.1	131	12.7	104	13				
<u>Bitterroot River</u>																	
Gibbons Pass	"	2	7100	2/28	81.2	26.2	19.8	25.5	17.4	150	20.8	126	15				
Mud Creek Pasture	"	3	4500	3/1	47.8	15.4	4.7	7.2	6.7	240	5.1	301	5				
Nezperce Camp	"	4	5800	No Report			12.0	15.8	10.1		12.0		12				
Nezperce Pass	Idaho		6575	No Report			20.9	21.4	14.6		16.1		12				
Packers Meadow	"		5700	2/28	85.3	30.7	16.4	21.4	16.9	182	19.1	161	12				

**Location of course shown on Index Map

**Location of course shown on Index Map

COLUMBIA BASIN DRAINAGE BASIN AND SNOW COURSE **														SNOW MEASUREMENTS					Years of Record
State	No.	Elev.	Date of Survey 1949	Snow Depth (In.) 1949	Water Content (Inches)					Average Data									
					March 1949	Past Records 1948 1947	March 1		April 1										
							Avg.	%Avg.	Avg.	%Avg.									
Flathead River																			
Cattle Queen	Mont.	2	4700	No Report											3				
Elk Mountain	"	4	6750	No Report											5				
Logan Creek	"	9	4300	3/2	41.0	10.0									10				
Marias Pass	"	10	5250	2/28	63.2	20.5	13.3	13.4	153	15.5	132				12				
North Fork Jocko	"	11	6330	3/2	100.0	37.4	44.8	30.7	118	27.5	136				7				
Rainy Lake	"	12	4300	2/27	44.5	14.3	10.1								2				
Spotted Bear Mt.	"	13	7000	3/1	53.0	19.0									2				
Strawberry Lake	"	14	6500	3/3	101.0	39.0									1				
Trinkus Lake	"	15	6500	2/28	102.0	37.0									2				
Snow Lab. #13	"	16	5240	3/1	39.3	11.3									2				
Brush Creek	"	17	5000	3/1	56.0	17.0		13.8	123	8.6	196				3				
Trout Lake	"		6500	2/28	60.0	21.0									2				
Limestone Pass	"		7000	No Report															
Upper Holland Lake	"		7000	2/24	95.0	31.0									2				
Big Creek	"		6750	2/25	97.0	35.0									6				
Pend Oreille River								30.4	115	36.0	97								
Baree Mountain	"	1	6000	No Report											10				
Freezeout Summit	"	6	7000	"	"										12				
Hoodoo Creek	"	7	6200	"	"										12				
Lookout	Idaho		5250	"	"		33.9	28.3							23				

**Location of course shown on Index Map

